

### Claim Listing

1. (original) A method for publishing a PIN for use in establishing a pairing with a printing device, comprising:

the printing device generating the PIN in response to a local PIN request;  
and  
the printing device printing the PIN.

2. (original) The method of Claim 1, identifying a local request to print a test page as the local PIN request and wherein printing the PIN comprises printing a test page that includes the PIN.

3. (cancelled)

4. (cancelled)

5. (currently amended) A method for initializing a device pairing, comprising  
generating a PIN in response to a local PIN request;  
printing publishing the PIN;  
receiving a connection request with PIN data; and  
generating a link key using the PIN data, the link key used for device pairing.

6. (cancelled)

7. (cancelled)

8. (currently amended) The method of Claim 5, wherein the local PIN request is a local request to print a test page, and wherein publishing printing comprises printing a test page that includes the PIN.

9. (cancelled)

10. (original) The method of Claim 5, further comprising determining the validity of the PIN data prior to generating the link key.

11. (original) The method of Claim 10, wherein determining includes determining if the PIN data corresponds to the PIN, determining if the generated PIN has expired, and rejecting the connection request if the PIN data does not correspond to the PIN or if the PIN has expired.

12. (original) The method of Claim 5 further comprising rejecting the connection request if the connection request is for a function not associated with the PIN data.

13. (currently amended) A method for establishing a pairing between a claimant device and a verifying device, comprising:

generating a PIN in response to a local PIN request made to the verifying device;

instructing the verifying device to print the PIN;

receiving from the claimant device a connection request, the connection request including PIN data;

determining whether a link key exists for the verifying device;

if a link key exists:

rejecting the connection request if the verifying device is not multi-claimant enabled;

rejecting the connection request if the verifying device is multi-claimant enabled with restricted access and the claimant device is not approved;

otherwise, upon a determination that the PIN data is valid, generating a link key from the PIN data to establish a pairing between the claimant device and

the verifying device.

14. (cancelled)

15. (currently amended) The method of Claim 13 14, wherein the PIN and the PIN data are of the same format and wherein determining the validity of the PIN data includes determining if the PIN data matches the generated PIN.

16. (currently amended) The method of Claim 13 14, wherein determining the validity of the PIN data comprises:

acquiring a unique identifier for the claimant device;

constructing verifying PIN data using the unique identifier and the generated PIN;

determining if the PIN data matches the verifying PIN data.

17. (original) A method for establishing a pairing between a claimant device and a printing device, comprising:

generating a PIN in response to a local request to print a test page made to the printing device;

instructing the printing device to print a test page that includes the PIN;

receiving from the claimant device a connection request, the connection request including PIN data;

determining whether a valid link key exists exist for the printing device;

if a valid link key exists:

rejecting the connection request if the printing device is not multi-claimant enabled;

rejecting the connection request if the printing device is multi-claimant enabled with restricted access and the claimant device is not approved;

otherwise, upon a determination that the PIN data is valid, generating a link key from the PIN data to establish a pairing between the claimant device and

the printing device.

18. (currently amended) A computer readable medium having instructions for:

generating a PIN in response to a local PIN request;  
~~printing~~ publishing the PIN;  
receiving a connection request with PIN data; and  
generating a link key using the PIN data to establish a device pairing.

19. (cancelled)

20. (cancelled)

21. (currently amended) The medium of Claim 18, wherein the local PIN request is a local request to print a test page, and wherein the instructions for ~~printing~~ publishing include instructions for printing a test page that includes the PIN.

22. (cancelled)

23. (original) The medium of Claim 18, having further instructions for determining the validity of the PIN data prior to generating the link key.

24. (original) The medium of Claim 23, wherein the instructions for determining include instructions for determining if the PIN data corresponds to the PIN, determining if the generated PIN has expired, and rejecting the connection request if the PIN data does not correspond to the PIN or if the PIN has expired.

25. (original) The medium of Claim 18, having further instructions for rejecting the connection request if the connection request is for a function not

associated with the PIN data.

26. (original) A computer readable medium having instructions for:  
generating a PIN in response to a local PIN request made to the verifying device;

instructing the verifying device to print the PIN;

receiving from a claimant device a connection request, the connection request including PIN data;

determining whether a link key exists for a verifying device;

if a link key exists:

rejecting the connection request if the verifying device is not multi-claimant enabled;

rejecting the connection request if the verifying device is multi-claimant enabled with restricted access and the claimant device is not approved;

otherwise, upon a determination that the PIN data is valid, generating a link key from the PIN data to establish a pairing between the claimant device and the verifying device.

27. (cancelled)

28. (currently amended) The medium of Claim 26 27, wherein the PIN and the PIN data are of the same format and wherein the instructions for determining the validity of the PIN data include instructions for determining if the PIN data matches the generated PIN.

29. (currently amended) The medium of Claim 26 27, wherein the instructions for determining the validity of the PIN data include:

acquiring a unique identifier for the claimant device;

constructing verifying PIN data using the unique identifier and the generated PIN;

determining if the PIN data matches the verifying PIN data.

30. (original) A computer readable medium having instructions for:  
generating a PIN in response to a local request to print a test page, the request being made to a printing device;  
instructing the printing device to print a test page that includes the PIN;  
receiving from a claimant device a connection request, the connection request including PIN data;  
determining whether a valid link key exists for the printing device;  
if a valid link key exists:  
    rejecting the connection request if the printing device is not multi-claimant enabled;  
    rejecting the connection request if the printing device is multi-claimant enabled with restricted access, and the claimant device is not approved;  
otherwise, upon a determination that the PIN data is valid, generating a link key from the PIN data to establish a pairing between the claimant device and the printing device.

31. (original) A system for publishing a PIN for use in establishing a pairing with a printing device, comprising:  
a pin module operable to generate the PIN in response to a local PIN request; and  
a publishing module operable to direct a print engine for the printing device to print the PIN.

32. (original) The system of Claim 31, wherein the local PIN request is a local request to print a test page, and wherein the publishing module is operable to identify the request, to direct the PIN module to generate the PIN, and to direct the print engine to print a test page that includes the PIN.

33. (cancelled)

34. (cancelled)

35. (currently amended) A system for initializing a device pairing,  
comprising

a pin module operable to generate a PIN in response to a local PIN  
request;

a publishing module operable to print ~~publish~~ the PIN;

a connection module operable to receive a connection request with PIN  
data; and

a key module operable to generate a link key using the PIN data, the link  
key used for device pairing.

36. (cancelled)

37. (cancelled)

38. (original) The system of Claim 35, wherein the local PIN request is a  
local request to print a test page, and wherein the publishing module is operable  
to direct a print engine to print a test page that includes the PIN.

39. (cancelled)

40. (original) The system of Claim 35, further comprising an authentication  
module operable to validate the PIN data and to instruct the key module to  
generate a link key upon a determination that the PIN data is valid.

41. (original) The system of Claim 40, wherein the authentication module is  
operable to determine if the PIN data corresponds to the PIN, to determine if the  
generated PIN has expired, and to reject the connection request if the PIN data

does not correspond to the PIN or if the PIN has expired.

42. (original) The system of Claim 35 further comprising an authentication module operable to reject the connection request if the connection request is for a function not associated with the PIN data.

43. (original) A system for establishing a pairing between a claimant device and a verifying device, comprising:

a PIN module operable to generate a PIN in response to a local PIN request made to the verifying device;

a publishing module operable to instructing the verifying device to print the PIN;

a connection module operable to receive from the claimant device a connection request, the connection request including PIN data;

an authentication module operable:

to determine whether a valid link key exists for the verifying device;

to reject the connection request if the verifying device is not multi-claimant enabled and a valid link key exists;

to reject the connection request if the verifying device is multi-claimant enabled with restricted access and the claimant device is not approved;

to determine the validity of the PIN data and reject the connection request upon a determination that the PIN data is not valid; and

a key module operable to generate a link key from the PIN data to establish a pairing between the claimant device and the verifying device.

44. (cancelled)



45. (currently amended) The system of Claim 43 [[44]], wherein the PIN and the PIN data are of the same format and wherein the authentication module is operable to determine the validity of the PIN data by determining if the PIN data matches the generated PIN.

46. (currently amended) The system of Claim 43 [[44]], wherein the authentication module is operable to validate the PIN data by:

- acquiring a unique identifier for the claimant device;
- constructing verifying PIN data using the unique identifier and the generated PIN;
- determining if the PIN data matches the verifying PIN data.

47. (original) A system for establishing a pairing between a claimant device and a printing device, comprising:

- a PIN module operable to generate a PIN in response to a local request to print a test page made to the printing device;

- a publishing module operable to instruct the printing device to print a test page that includes the PIN;

- a connection module operable to receive from the claimant device a connection request, the connection request including PIN data;

- an authentication module operable:

- to determine whether a link key exists for the verifying device and if a link key exists;

- to reject the connection request if the verifying device is not multi-claimant enabled;

- to reject the connection request if the verifying device is multi-claimant enabled with restricted access and the claimant device is not approved;

- to determine the validity of the PIN data and reject the connection request if the PIN data is not determined to be valid; and
- a key module operable to generate a link key from the PIN data to

establish a pairing between the claimant device and the verifying device.

48. (original) A system for publishing a PIN for use in establishing a pairing with a printing device, comprising:

a means for identifying a local PIN request;

a means for generating the PIN in response to the local PIN request; and

a means for directing a print engine for the printing device to print the PIN.

49. (original) The system of Claim 48, wherein the means for identifying is a means for identifying a local request to print a test page, and wherein the means for directing is a means for directing the print engine to print a test page that includes the PIN.